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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,803	12/14/2005	Daniel T. Green	022354-000310US	7164
	7590 10/24/200 AND TOWNSEND AN	EXAMINER		
TWO EMBAR	CADERO CENTER	AUDET, MAURY A		
EIGHTH FLOO SAN FRANCIS	OR SCO, CA 94111-3834		ART UNIT	PAPER NUMBER
	•		1654	
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			MAIL DATE	DELIVERY MODE
			10/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

သွေးစုါ · Notice of Allowability

Application No.	Applicant(s)	
10/540,803	GREEN ET AL	
Examiner	Art Unit	
Maury Audet	1654	

	Maury Audet	1654						
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com GHTS. This application is) in this application. If not inclu- munication will be mailed in du-	ded e course. THIS					
1. X This communication is responsive to 7/23/07.								
2. ☑ The allowed claim(s) is/are <u>5,6,8,10,12-13,18 and 19</u> .								
3. Acknowledgment is made of a claim for foreign priority unexate all balls ba	e been received. e been received in Application and the communication to the state of this communication. Itted. Note the attached Eas reason(s) why the oather the submitted. It be submitted. It is application. It is application.	ation No ved in this national stage application are ply complying with the research or declaration is deficient. The control of the drawings in the front (not the control of the drawings in the front (not the control of the drawings in the front (not the control of the drawings in the front (not the control of t	equirements NOTICE OF					
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			Note the					
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Paper N 7. ☒ Examine 8. ☒ Examine	f Informal Patent Application v Summary (PTO-413), lo./Mail Date r's Amendment/Comment r's Statement of Reasons for A	llowance					
	9. 🗌 Other	 -						

SUPPLEMENTAL EXAMINER'S AMENDMENT

The present Supplemental Examiner's Amendment is being sent to acknowledge that

claim 13 was allowed, but inadvertently left off both Form 326 and below, as allowed. The

correction is herein duly noted. As well as send the initialed/dated/signed Form 1449 for the IDS

submitted 05/07, submitted just prior to the Advisory Action that was sent by the Office.

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was approved by Ted Apple, Applicant's

Representative, during a telephone conversation held on 8/30/07.

IN THE CLAIMS

Claim 5 is replaced in its entirety to now claim:

(Currently Amended) A method of reducing the risk of insulin-induced 5.

hypoglycemia in a diabetes patient who is being treated with insulin, which method comprises

administering to the patient an amount of glucagon that results in a plasma glucagon level in the

range achieved by intravenous infusion of glucagon at a rate that is not less than 0.10 ng/kg/min

and not more than 5.00 ng/kg/min,

wherein glucagon is administered daily as part of a diabetes treatment regimen, and

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wherein said patient is not suffering hypoglycemic symptoms and has a blood glucose level of from 70-110 mg/dL when said glucagon is administered.

In claim 18, line 1, the phrase "basal replacement dose" has been deleted and term --administration-- inserted.

Claims 9 and 20-25 have been cancelled without prejudice.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record does not reasonably teach or suggest the presently claimed method, wherein a <u>proactive daily</u> basal amount of glucagons, while is administered alongside insulin administration to offset the decrease in glucose levels stimulated by the effect of insulin and reduce the risk of hypoglycemic states common in diabetics, as a result of insulin administration. The benefits daily basal glucagon administration in diabetics are shown the IDS submission of 8/28/07, in the slides bearing test data to this effect, which Applicant recently presented before the ADA (American Diabetic Association).

Houlbert et al. (IDS, 5/2/07; "Continuous Subcutaneous Infusion of Glucagon by Portable Pump in Non Beta Cell Tumor Hypoglycemia," Diabete & Metab. 11 (2):125-7, April 1985)) is now deemed the closest prior art of record to the present invention, albeit non-analogous art, since not utilized alongside insulin or in diabetes therapy. Houlbert et al. is drawn to daily (nightly) administration of low dose glucagon to reduce the risk of hypoglycemia in a patient suffering from non-beta cell tumor hypoglycemia, in both continuous/low dose glucagons

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administration was found to be successful in reducing the risk of hypoglycemia. However, the '85 reference does not provide the teaching/suggestion and thus motivation, alone or in combination with secondary references from analogous insulin/diabetic therapy art - to arrive at the present invention of a proactive daily basal glucagon administration alongside insulin to reduce the risk of hypoglycemia in diabetic therapy. The art of record can be summarized as reactive, rather than proactive. In that glucagon is administered, even via pump, only when near or at hypoglycemic levels have been detected in the body; rather than administering low levels to reduce the risk of hypoglycemic levels even occurring.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 5-6, 8, 10, 12-13, and 18-19 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maury Audet whose telephone number is 571-272-0960. The examiner can normally be reached on M-Th. 7AM-5:30PM (10 Hrs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MA, 10/23/2007

Cecilia J. Tsang